85311

Page 1

Wednesday, June 06, 2012 10:33:10 AM Item ID: D412-742-013 Accept *N900040100* Setup Start **Revision ID:** Float Skidtube Installation Item Name: Start Date: 6/5/2012 Start Oty: 1.00 Cust Item ID: Required Date: 6/6/2012 Req'd Oty: 1.00 **Customer:** CU-DAR001 RMA RAIII368 - RETURN Reference: Run Start Process Plan: ME Date: 12-06-06 Approvals: Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Accept Reject Insp. Work Center ID Description **Run Hours** Number Stamp **Qty** Draw Nbr **Revision Nbr** TEATHTOVAL # CD 69 IIN D412-742 Е TEL- 0-610-652-6200 CANADA KEA (KV 100 0.00 D412-742-013 **CHG007** *100* Float Skidtube SIC SR01583SE OC B83616 Memo STC LOT SH05-37 Quality Control 205/210/212/412/AB412 INSPECT RA 111368 D412-742-013-B 83615 CHG 007 SIC 027292 MADE INCANADA AFT CAP DAMAGED AND NEEDS TO BE REPLACED. TOUCH UPS NEEDED ON D3391-025 3 CLEAN MID-TUBE D3391-023 REMOVE FWD CAP BUFF OUT MARKS FROM SHIPPING DAMAGE AND MESURE *NEEDS ENG APPR BEFORE CONTINUING* 110 0.00 *110*

Skidtubes Skidtubes *

REMOVE FWD CAP AND BUFF

0.00

pto =)

d Il 12/06/14

Dart	Aeros	pace	Ltd
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W/0:85	(31)	WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approvat QC Inspector		
12/06/13	110	Powder Cout Temp 3200F W121134 FinishTime 8=00	mx	12/06/14	/ x	Ü 1200	106/15 12/06/15		
12/06/21	1104	QC3 Inspect Part Finish + Touch-up Alodine	BL	PB·6-14	14.	9.18	RIK/2		

Part No: _	D 412-742-013PAR#:	Fault Category:	NCR: Yes No DQA:	Date:
	Resolution:	Disposition:	QA: N/C Closed:	Date:

NCR:	WORK ORDER NON-CONFORMANCE (NCR)											
	T	Description of NC		Corrective Action Section B	Verification	Approval						
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	Approval QC Inspector				
	-											
1		·										

1/10

Quality Control

Memo

OC

Page 2

Wednesday, June 06, 2012 10:33:10 AM Item ID: D412-742-013 *N900040100* Accept Setup Start **Revision ID:** Float Skidtube Installation Item Name: **Start Date:** Start Qty: 1.00 6/5/2012 **Cust Item ID:** Required Date: 6/6/2012 Req'd Qty: 1.00 **Customer:** CU-DAR001 Reference: RMA RA111368 Start Run Approvals: **Process Plan:** Date: **Tooling:** Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation **Tool ID** Tool # Plan Set Up/ Accept Reject Reject Insp. Work Center ID Description **Run Hours** Code Qty Qty Number Stamp 120 QC5- Inspect part completeness to step on W/O 0.00 *120* QC Memo ENG SIGN TO SEE WHETHER FWD TUB IS GOOD SEC Attacked Small Quality Control 130 0.00 *1 3በ* HandFinish 0.00 Memo Hand Finishing APPLY TOUCH UPS WHERE NECESSARY AND RE-ASSEMBLE PER ENG APPROVAL DISCARD HARWARE AND RE-ASSEMBLE WITH NEW 140 QC5- Inspect part completeness to step on W/O

0.00 Sorbeily

	P													
W/O:			WORK ORDER CHANGES											
DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval- QC Inspector					
						:								
														
	,													
Part No		PAR #:	Fault Cat	egory:	NCR: Ye	Date:								
	R	esolution:	Dispositi	on: <u>`</u>	QA: N/C	Closed: _	· · · · · · · · · · · · · · · · · · ·	Date: _	· · · · · · · · · · · · · · · · · · ·					
NCR:			WORK ORE	DER NON-CONFORM	ANCE (NO	CR)		*						
DATE	OTED	Description of NC			ction B	Verif	ication	Approval	Approval					
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sig Da	n& ∣ _{Ser}	tion C	Chief Eng	QC Inspector					
					·									
									,					
									,					
		1												

Page 3

Item ID:

Required Date: 6/6/2012

D412-742-013

Wednesday, June 06, 2012 10:33:10 AM

Accept

N900040100

Setup Start

Revision ID:

Item Name: **Start Date:**

Float Skidtube Installation

6/5/2012

QC:

Start Qty: 1.00 Req'd Qty: 1.00

Cust Item ID:

Tool ID

Customer: CU-DAR001

Stop

Reference:

RMA RA111368

Approvals:

Process Plan:

Date: Date: Tooling:

SPC (Y/N):

Date:

Date:

Tool # Plan

Code

Reject

Qty

Stop

Run

Accept

Qty

Number Stamp

Insp.

Reject

Sequence ID/

Work Center ID

150

Operation Description

Identify as per dwg & Stock Location:

Set Up/ **Run Hours**

0.00

150

Packaging

Packaging

Memo

0.00

ID AND STOCK UNDER NEW BATCH NUMBER

160

QC21- Final Inspection - Work Order Release

0.00

160

QC Quality Control

Memo

0.00

MLJ12/06/11

MG
12-06-15

W/O:		No. 100 100 100 100 100 100 100 100 100 10	W	ORK ORDER CHANG	ES					,	
DATE	STEP	PRO	OCEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval- QC Inspector	
									1 103 Wg/		
Part No	Part No: PAR #:		Fault Cat	tegory:	_ NCR	: Yes N	o DQA: Date:				
	R	esolution:	Dispositi	on:	_ QA: I	A: N/C Closed: Date:					
NCR:		\	WORK OR	DER NON-CONFORMA	ANCE	(NCR)		············			
DATE	STEP	Description of NC			ion B	<u> </u>	Verification		Approval	Approval	
DAIL	SIEF	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Sectio	n C	Chief Eng	QC Inspector	
						<u> </u>					
										t	
								:			
1	1		i l				1				

Picklist Print

Friday, June 15, 2012 10:34:02 AM

Work Order ID:

85311

Parent Item:

D412-742-013

Parent Item Name:

Float Skidtube Installation

Start Date: 6/5/2012

Required Date: 6/6/2012

Page 1

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev: A05.10.13New Issue KJ/JLM

IPP Rev:B 06-06-08 As per DSI9336 JLM

IPP RevC 07-12-03 ECN

1072 DD verified by:JLM

IPP Rev:D 08-09-08 ecn 08-510 DD verified by:EC

IPP Rev:E 09-01-23 as per DSI9441 DD verified by:EC

IPP RevF: add AN4C7A DD IPP Rev:G 11.11.01 as per DSI9517 REV.B DD verified

10.01.13 verified by:EC by:EC IPP rev:H 12.01.12 PER IIN REV.E DD VERF:

DD 12.03.14 verified by EC

IPP Rev:I add AN4C47A

	DD 12.03.14 veri	fied by:EC											
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued.	Status
AN3C37A		Purchased	No	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		······································	Each	142.0000		1		9	
BOLT									6 · 5 · - 315, 1 · - 130, 100				
				Location		Loc Qty	<u>L</u>	oc Code					
			•	ST354		142							
				116	5874	11							
					7010	2							
)422	3			-/2	721			
)731 .068	1 74			120	73/			
					.584	1							
•					585	50				A TOMAN BORNING			1
AN3C40A		Purchased	No				Each	25.0000		1	_		
BOLT								•	e. J 1	. • 	THE STREET		
				Location		Loc Oty	Lo	oc Code					/
				ST354		25							
				114	442	25				4941			,
AN3C41A BOLT		Purchased	No				Each	115.0000	EVERY A PROPERTY OF	(()			
				<u>Location</u>		Loc Qty	Lo	c Code					
				FG		4							
				103	324	4							
				ST354		. 111			110	2			
•				119		1			119	620			
				121		30							
				121.	313	80							

Work Order ID:	85311									
Parent Item:	D412-742-013			·=				Stai	rt Date: 6/5/2012	Required Date: 6/6/2012
Parent Item Name:	Float Skidtube Inst	tallation							rt Qty: 1.00	Required Qty: 1,007
an3c42a Bolt		Purchased	No				Each	33.0000		1
				<u>Locatio</u>	<u>n</u>	Loc Qty		Loc Code		
				ST354		33				
					106176	1				- -
					.119673	1			11967	3
					120464	6		•		
					121103	25				
N3C43A OLT		Purchased	No				Each	86.0000	Lis vi imper <u>io de la presenta de la compansa de la</u>	4 - 9
				Locatio	<u>n</u>	Loc Qty		Loc Code		
				ST354		. 86				
					114455	2			*****	•
					119673	1				
					120364	4			12036	, 5
					120465	79				
N3C46A DLT		Purchased	No				Each	48.0000	Company of the second of the second	5 - 0
	•			Location	<u>1</u>	Loc Oty		Loc Code		
				ST355		48				
					120447	43				2
					121103	5			12/10	<i>5</i>
N4C47A olt		Purchased	No				Each	102.0000	Comprehension of the Comprehen	4 . 6
				Location	<u>1</u>	Loc Qty		Loc Code		€ /,
				ST361		102				
					118451	6				
					119798	2				, Q
					121009	26			M/2/0	
					121585	18				
					122012	50			-	

Work Order ID:	85311										
Parent Item:	D412-742-013							Start D	Date: 6/5/2012	Required 1	Date: 6/6/2012
Parent Item Name:	Float Skidtube Installation	on						Start	Qty: 1.00	Required	Qty: 1.00
AN4C52A BOLT	Pı	ırchased	No				Each	60.0000	4		4
				Location		Loc Qty		Loc Code			~
				ST361		60					
					117688	6					
					120364	50			- 10 -		
					120465	4			120	465	
NAC53A Bolt	Pu	rchased	No				Each	22.0000	4		
				Location		Loc Qty		Loc Code			
				ST361		22			,		
					121183	22			12/882	•	1
N4C6A	D ₁₁	rchased	No				Each	555.0000	16		<u></u>
olt	ı u	renaseu					Lucii	333.0000	10		
				Location		Loc Qty		Loc Code			
				FG		4					
					103344	4					
				ST356		551			71.41		
					116704	2			1.		
					120423	17			122423)	
					121656	32					
					21658	500					1
N4C7A olt	Pui	rchased	No				Each	147.0000	4	_ /	
				Location		Loc Qty		Loc Code	f = 'est =		
				ST356		147			4		
					09147	147			/07/9)		,
N6C12A	n	chased	No			14/	Each	46.0000		ŧ	
OLT	Pui	cnased	INO				Each	40.0000	8	promote and the second second	/
				Location		Loc Qty		Loc Code		(
				ST341		46			, ,	2	
				1	21302	8			12/3	1	
					21541	38					

Work Order ID:	85311								
Parent Item:	D412-742-013						Start l	Date: 6/5/2012	Required Date: 6/6/2012
Parent Item Name:	Float Skidtube Insta	Illation		•			Start	Qty: 1.00	Required Qty: 1.00
AN960C10L washer	NAS1149C0332R	Purchased	No			Each	21.0000	F 10 100 F21	38 m/2/205/
				Location	Loc Oty		Loc Code		, ,,,,
				ST	21			4	
				107534	21				
2571 addle, Fwd Out 205		Manufactured	No			Each	11.0000		1 .
				Location	Loc Qty		Loc Code		
				ST	1				
•				11644	1				• •
				ST425	-13				•
				ST432	10				
				81764	1			81764	•
				83670	9				
				ST433	13				
2 572 addle, Fwd In 205		Manufactured	No			Each	7.0000	and the second of	1 -
				Location	Loc Qty		Loc Code		
		•		ST423	1			•	
				82050	1			82000	
				ST432	6				
				7 1107	2				
				82812	. 4				1
2573 addle, Aft Out 205		Manufactured	No			Each	15.0000		1 .
				Location	Loc Oty		Loc Code		
				ST423	-12				
				79424	0				
				ST433	15			8204	f
				82048	1				
				83454	2				
				83669	12				
				ST434	12				

Work Order ID:	85311				
Parent Item:	D412-742-013		•	Start I	Pate: 6/5/2012 Required Date: 6/6/2012
Parent Item Name:	Float Skidtube Installation				Qty: 1.00 Required Qty: 1.00
D3403-1 Bushing	Manufacture	d ^{No}	Eac	h 63.0000	8 .
		Location	Loc Qty	Loc Code	
		ST041	15		
		70696	15		
		ST042	48		
		80208	. 7		
		80219	12		JU217
		81529	29		
D3403-3	Manufacture	d ^{No}	Each	20.0000	8 —
Bushing			*	•	Pagenta
		Location	Loc Qty	Loc Code	
		ST042	20		•
		81530	8		81530
		84503	12		
D3403-5	Manufacture	j No	Each	98.0000	
Bushing					C 1.1111.752.757
		Location	Loc Qty	Loc Code	
		ST042	98		
		81531	38		\$1631
		85426	60		
D3405-041	Manufactured	l No	Each	24.0000	
Lug Assembly					
		Location	Loc Qty	Loc Code	
		ST478	24		
		62227	2		
		77000	2		82031
		82031	1		
		83370	7		
		83896	12		

Work Order ID:	85311									
Parent Item:	D412-742-013						Start D	ate: 6/5/2012	Regui	red Date: 6/6/2012
Parent Item Name:	Float Skidtube Installation			-				Qty: 1.00		ired Qty: 1.00
D3405-043 Lug Assembly	Manufactured	No		•		Each	21.0000	Charles - Annual Control of the Cont	1	
			Location		Loc Qty		Loc Code			
			ST474		1				_	
			82	2037	i			&2v	37	
			ST478		20				_	
				038	1					
				372	8			***************************************		1
D240# 044			83	897	11				_	
D3407-041 Tow Ring	Manufactured	No				Each	14.0000		1 2	
row King							·			
			Location		Loc Qty		Loc Code			
			ST463		13				_	
				068	13					
			ST464		1				~	
D244= 2			82	108	1			\$2/	کر کے	
D3417-3	Manufactured	No				Each	33.0000		2	
Washer							•	COMMENTAL AND ADDRESS ' TO	:	
			<u>Location</u>		Loc Qty		Loc Code			
		I	FG		9				_	
				519	9				_	
			ST042		24			- 10		•
D2486.1			802	225	24			Pu 20	<u>0</u>	
D3456-1 Washer	Manufactured	No				Each	231.0000		1	142/8/14
wasner								erronino de per sentante		— 9 <i>7</i> —7——
			<u>Location</u>		Loc Qty		Loc Code			
		I	FG		7				_	
			257	701	7				-	
		5	ST044		224				_	
			802		1			0/071	<u>.</u>	
			818 835		23			8/8/8	-	
			852 852		100 100				-	
				.43	100		•		-	
Fuid 15 201	2 10 24 02 434									·

Work Order ID:	85311					_		
Parent Item:	D412-742-013						Start D	Date: 6/5/2012 Required Date: 6/6/201
Parent Item Name:	Float Skidtube Inst	allation						Qty: 1.00 Required Qty: 1.00
D3533-1 Set Screw		Manufactured	No			Each	92.0000	2 20306 C
•				<u>Location</u>	Loc Qty		Loc Code	
				ST053	92			
	•	•		80326	4			**************************************
				83892	88			
D3672-11 Phenolic Washer		Manufactured	No			Each	251.0000	8 -
				Location	Loc Oty		Loc Code	
				ST060	251			
				77483	251			77483
3672-3 henolic Washer		Manufactured	No			Each	599.0000	32 ~
				Location	Loc Qty		Loc Code	
				ST060	599			
				83238	32			83238
				84361	567			
3672-9 henolic Washer		Manufactured	No			Each	356.0000	8 ,
				<u>Location</u>	Loc Qty		Loc Code	
				ST060	356			(🗖 🗖
				81763	356			8/763

Work Order ID: 85311 Parent Item: D412-742-013 Required Date: 6/6/2012 **Start Date:** 6/5/2012 Parent Item Name: Float Skidtube Installation Start Qty: 1.00 Required Qty: 1.00 MS21043-3 Purchased No Each 1,374.0000 13 Nut Location Loc Qty Loc Code FG 72 103691 72 ST301 1302 118077 2 118614 51 118686 30 119758 20 121255 243 121708 956 MS21043-4 Purchased No Each 1,181.0000 Nut Location Loc Qty Loc Code FG 40 40 104603 ST301 1141 119546 115 120308 29 121162 497 500 121652 NAS1149C0332R Purchased No Each 9,880.0000 Washer Location Loc Qty Loc Code 297 9852 122063 9852 ST297 26 121255 26 ST298 2 121509 2

Work Order ID:	85311								
Parent Item:	D412-742-013					Start D	ate: 6/5/2012	Required Date: 6/6/20)12
Parent Item Name:	Float Skidtube Installation					Start C	2ty: 1.00	Required Qty: 1.09	1
NAS1149C0432R Washer	Purchased	l No		E:	ach	3,816.0000	The control of the property of the control of the c	2	n a
			Location	Loc Qty		Loc Code			
			ST297	1102					
			117291	102			m//29	91	
			119124	1000			74(11 10	,	
			ST298	2714					
			121255	2714					1
NAS1149C0632R WASHER	Purchased	No		Ea	ach	231.0000			
			Location	Loc Qty		Loc Code			
			ST297	231					

28

200

119736 120308 121060

121825

Picklist Print

Wednesday, June 06, 2012 10:33:09 AM

Work Order ID:

85311

Parent Item:

D412-742-013

Parent Item Name:

Float Skidtube Installation

Start Date: 6/5/2012

Required Date: 6/6/2012

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev: A05.10.13New Issue KJ/JLM

IPP Rev:B 06-06-08 As per DSI9336 JLM

IPP RevC 07-12-03 ECN

DD verified by:JLM

IPP Rev:D 08-09-08 ecn 08-510 DD verified by:EC

IPP Rev:E 09-01-23 as per DSI9441 DD verified by:EC IPP RevF: add AN4C7A DD 10:01.13 verified by:EC IPP Rev:G 11.11.01 as per DSI9517 REV.B DD verified by:EC IPP rev:H 12.01.12 PER IIN REV.E DD VERF: IPP Rev:I add AN4C47A

DD 12.03.14 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status Y PT O	=)
AN3C4A BOLT		Purchased	No				Each	1,362.0000	•	H 24	12 06	114		

Location	Loc Qty	Loc Code	
ST350	1362		
120187	57		
120521	28		
120769	38		114
121205	1000		V21
121556	239		

			121330	239		
AN3C6A	Purchased	No			Each	451.0000
BOLT						

M 10 12/06/14

		100
Loc Qty	Loc Code	
i		
1		
450		
2		
23		
2		
12		
10		
1		
5		
13		
21		
3		
158		
200		<u> </u>
	1 1 450 2 23 2 12 10 1 5 13 21 3 158	1 450 2 23 2 12 10 1 5 13 21 3

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
12/06/14		RCASSCOMBle with: ALS4-1032-225 / MIZIZ69 ALS4-1032-130/ MIZIZ69	Jy.	12/06/14	(X18) X26)	Y ,m.	
1269/14		NAS 1330 (3KB 116 / M 103337 FOR TOW-CAP. D3591-1/B83237 bushing	Ŋ	11 1061 11	(XZ) (XLI)		

Part No:	PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
	Resolution:	Disposition: `	QA: N/C Closed:	Date:

	WORK ORDER NON-CONFORMANCE (NCR)								
	Description of NC		Corrective Action Section B		Verification	Approval	Approval		
STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector		
	· .								
	÷						,		
							ŧ		
	STEP	STEP Description of NC	STEP Description of NC Section A Initial	STEP Description of NC Section A Initial Action Description	STEP Description of NC Section A Initial Action Description Sign &	STEP Description of NC Section A Initial Action Description Sign & Section C	STEP Description of NC Section A Proval Initial Action Description Sign & Section C Se		

Wednesday, June 06, 2012 10:33:09 AM

Work Order ID:

85311

Parent Item:

AN3C7A

AN960C10L

Float Skidtube Installation

washer **D412-742-013**

BOLT

D412-742-013

NAS1149C0332R

Parent Item Name:

Float Skidtube Installation

Purchased

Purchased

Manufactured

No

No

Start Date: 6/5/2012

Required Date: 6/6/2012

Start Qty: 1.00

Required Qty: 1.00

No	Ea	ch 140.0000	4
<u>Location</u>	Loc Qty	Loc Code	Al 12/06/14
ST351	140		
113149	14		
116169	1		
117313	10		
117619	12		
117688	6		
119749	1		
120731	8		
121185	50		
121541	38		

0.0000

0.0000

Each

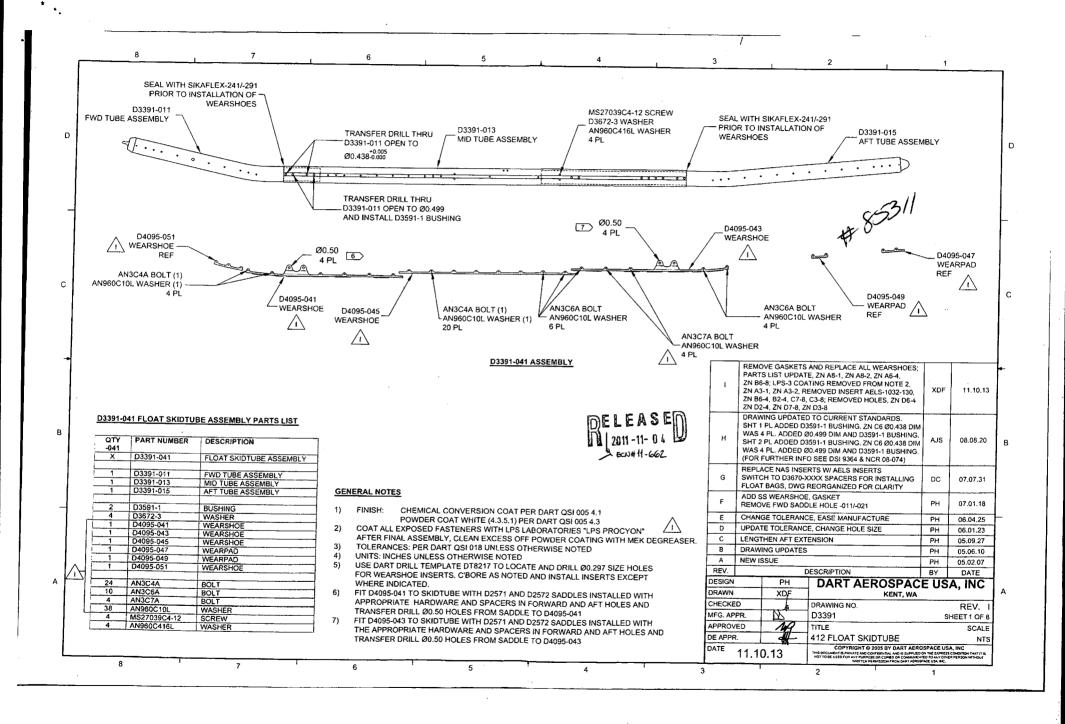
Each

11122063 K32) Al Moclin

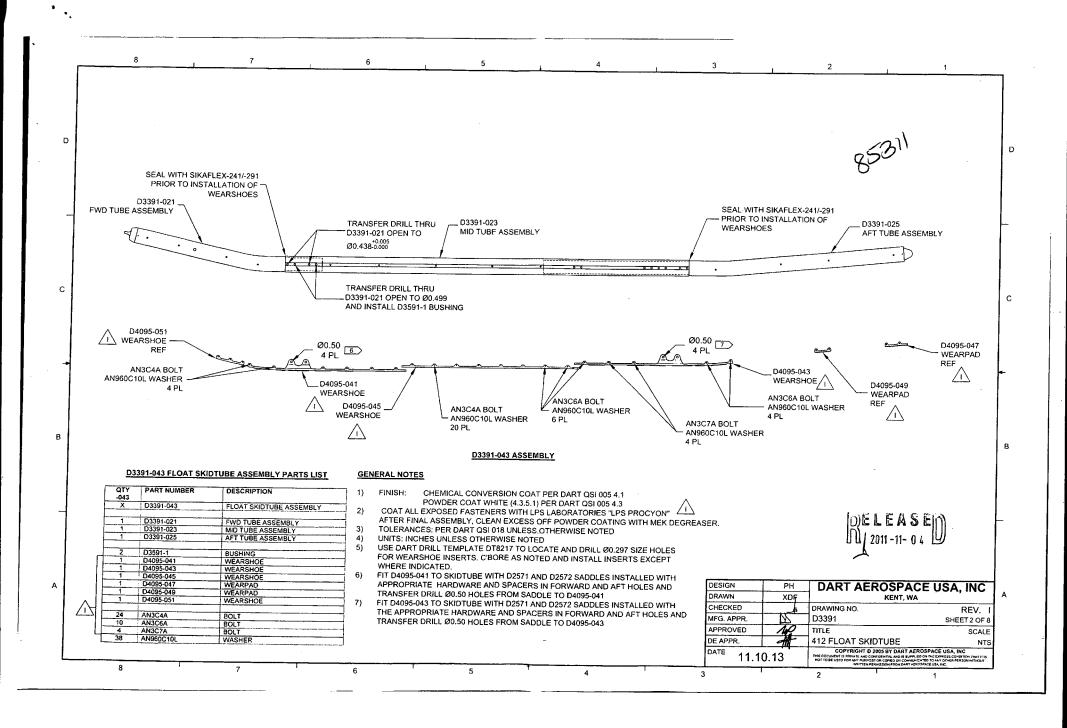
38

Wednesday, June 06, 2012 10:33:09 AM

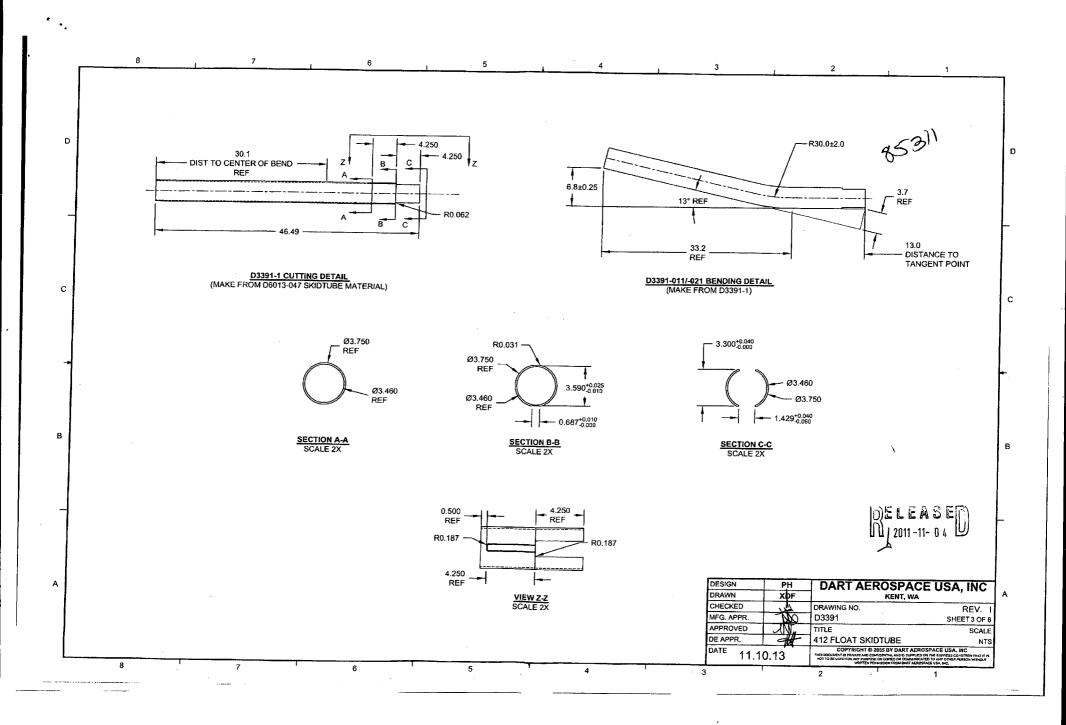
W/O:			WORK ORDER CHANGES									
DATE	STEP	PRO	OCEDURE CHAI	NGE	ı	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
			······································						-			
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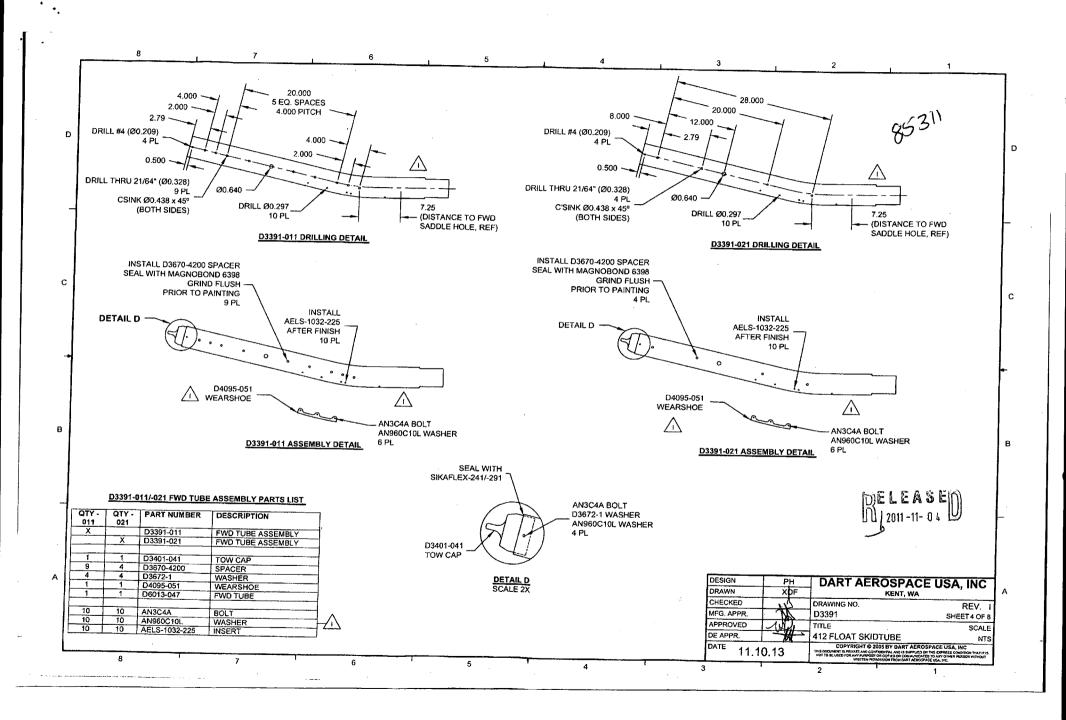
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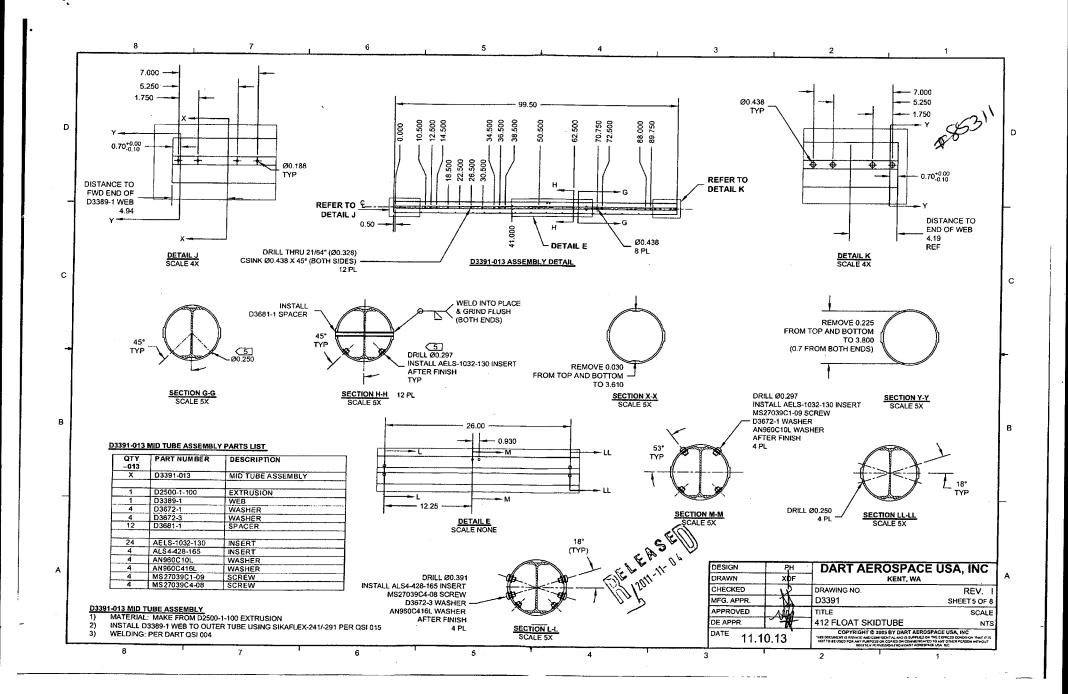
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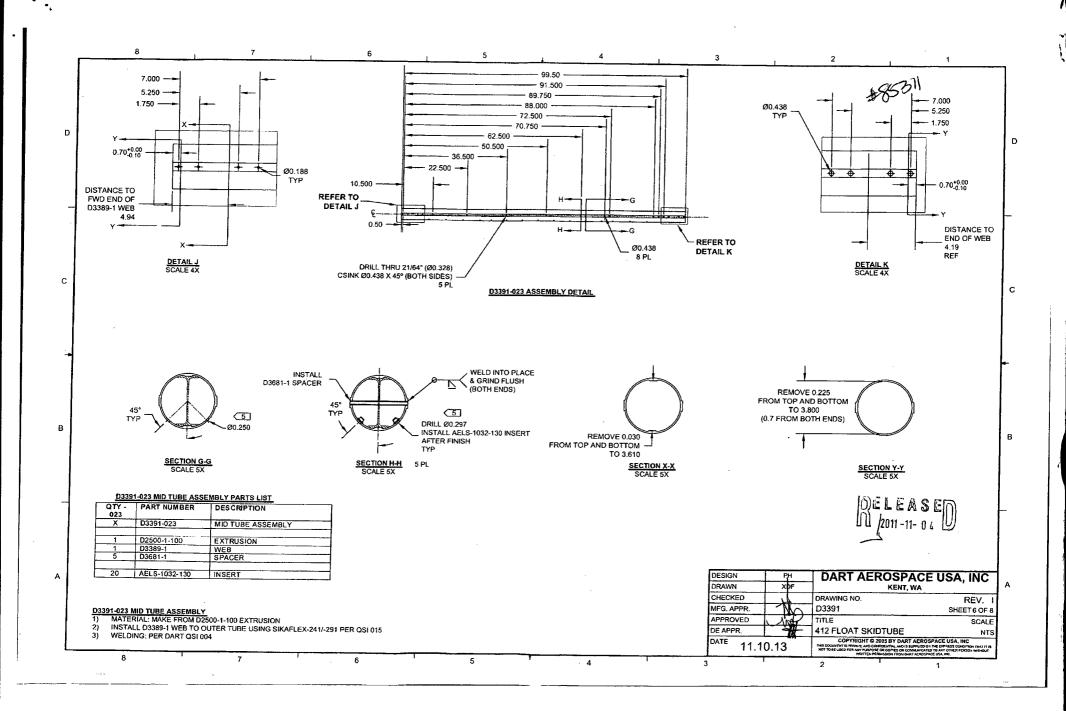
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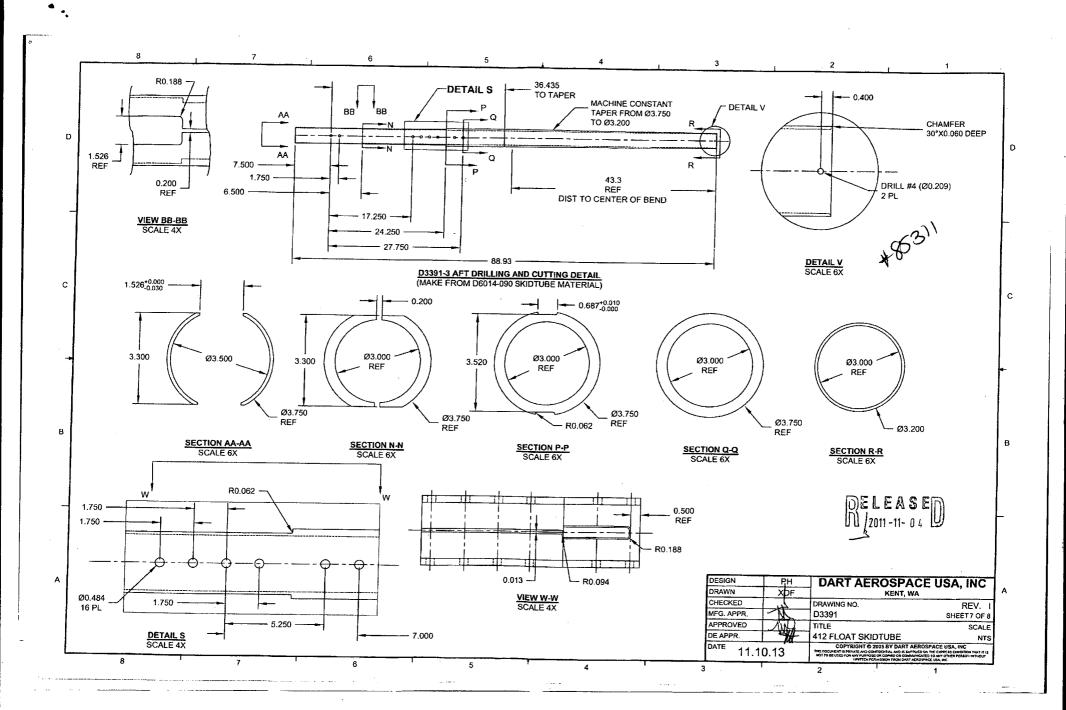
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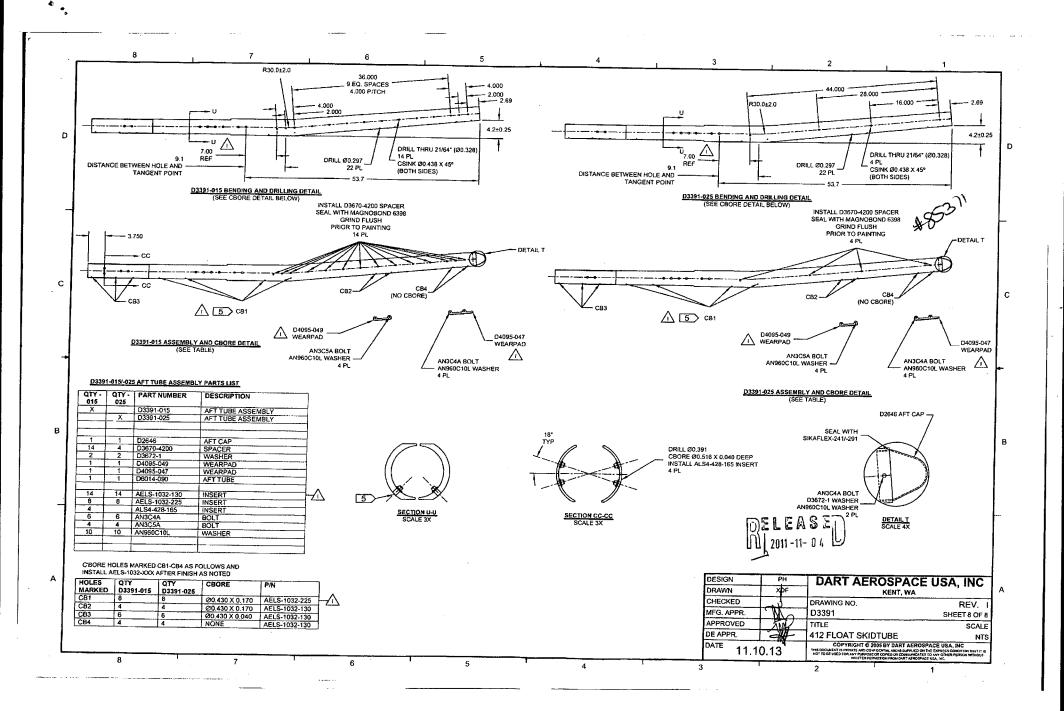
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Received @ Dart June 5th, 2012 Inspected@ Dart June 5th, 2012

Customer: Bristow US LLC Customer Contact: Lynn Castille Shipped from: New Iberia LA USA

Instructions for RA111368 D412-742-013 B83615 CHG007

- Aft cap damaged needs to be replaced
- Touch ups needed on D3391-025
- Clean up mid tube D3391-023
- Remove fwd cap w
- Buff out marks from shipping damage and measure
 Have eng signoff for dims
- All work need must be done on new work order
- Needs new labels and paper work
- Needs new batch #

<u>Time Estimate</u> = 3 HOURS <u>Departments Required:</u> Finishing (2h reworking) & Stores (1h-restocking) Pictures Attached = YES

THIS INSTRUCTION SHEET MUST BE ATTACHED TO THE RESTOCKING WORK ORDER AT ALL TIMES!!!!

Dart Ae	rospace	e Ltd							
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Chris Provencal

From:

David Shepherd <dshepherd@dartaero.com>

Sent:

Thursday, June 07, 2012 5:27 PM

To:

'Chris Provencal'

Cc:

'Mike Petsche'; 'Linda Lacelle'

Subject:

RE: NCR D3391 FWD TUBE

Chris,

Agree that it is acceptable to repair this damage and salvage this tube as well. If there was a way to do a hardness check on the heat affected area, then I would recommend doing that just to see what we're dealing with.

David

From: Chris Provencal [mailto:cprovencal@dartaero.com]

Sent: June-06-12 1:43 PM

To: David Shepherd **Cc:** Mike Petsche

Subject: NCR D3391 FWD TUBE

David,

The second of the tubes was obviously dragged on the ground/road/something. One of the fwd cap bolts was ground flush with the skidtube, which was partially ground itself. When they cut the bolt out, the inner part of the bolt was black, with some blackening of the paint on the skid and fwd cap. So there was a great deal of heat being generated.

The only other damage on this tube is a small dent in the aft cap (other end of the tube), which can be replaced.

They've cleaned up the damaged area, grinding it smooth/round (clean1.jpg/clean2.jpg). The hole is not elongated. The thickness at the hole is 0.142" (dwg = 0.145) and transitions to 0.115" thick at the fwd edge of the tube.

The only real issue is the towing load from the fwd cap. So I wouldn't consider this tube to have a potential safety issue. If the first hole is considered to be heat affected, the strength in the remaining 3 holes is: yield bearing = $97ksi \times 0.188 \times 0.145 \times 3 = 2644 \times 3 = 7,932$ lb for the single tube.

I would be inclined to accept the tube, but again as the damage isn't from a manufacturing deviation, I want to get your approval.

-Chris

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Work Order ID: 81	083		*	8108:	3*								
Parent Item: D4	412-742-013				-742-0	40*							
Parent Item Name:	Float Skidtube Inst	allation		1 14 1 /	-/4/-()	1.3			Start Date: 08 Start Qty: 1.		•	d Date: 22a	
Comments:	IPP Rev: A05.10.11 IPP Rev:B 06-06 07-12-03 ECN 1 IPP Rev:D 08-09 IPP Rev:E 09-01 AN4C7A DD 10.0 DS19517 REV.B E REV.E DD VERI	6-08 As per DSI 072 DD ve 0-08 een 08-510 -23 as per DSI94 01.13 verified by: DD verified by:EO	erified t DD ve 141 DE EC	by:JLM prified by:EC Diverified by: IPP I	Rev:G 11.11.01	vF: add							
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Ki	t Total Qty	Qty Issued	Date Issued	Status
D412-742-043		Manufactured	No			110	Each	0.0000		1			
D412-74 Replacement Float Skidtul	2-043								**	8	36/9		/
*D2571 *D2571* Saddle, Fwd Out 205		Manufactured	No			110	Each	10.0000	★★	1	81769	/ S	12
				Location	<u>1</u>	Loc	Qt <u>y</u>	Loc Code					•
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				ST425	11644]						
				ST432			-13 9		-		_		
				51.152	78239		1		-		_		
					79425		2		_				
				CT422	79977		6		-				
02572		Manufactured	No	ST433		110	13 .	(0000	_		_		
D2572 addle, Fwd In 205		ivianutactured	140			110	Each	6.0000	**	1 B820	oto	12/4	0/25
				Location		Loc C	<u>)ty</u>	Loc Code					
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March-08-12 8:43:13 AM

Shop Packet Print

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Parent Item: D412-742-013)412-742-(749*				
Parent Item Name: Float Skidtul	be Installation	'	J4 1 / - 1 4 / - 1	11.5"			Date: 08/03/2012	Required Date: 22/03/2012
D3403-I	Manufactured	⁻N o		•••			Qty: 1.00	Required Qty: 1.00
D3403-1	Mandiactured	140	• •	110	Each	107.0000	8 8	
> Bushing	_ `					*:	* A	
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			ST042		92	N	V	
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J93403-5			80219		52		8	_
	Manufactured	No		110	Each	79.0000	8 8	(Mt)
D3403-5 Bushing						**	Bill S	\$ 812310
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			79740		47			
D2747	Manufactured	No	80221	110	32		M A	- /
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D2747 Set Screw						**	\mathcal{J}	6
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D3533-1	Manufactured	No		110	Each	98.0000	2 2	
D3533-1						**	12/46	5 1/5
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Work Order ID: 81083 Parent Item: D412-742-013 Parent Item Name: Float Skidte	ibe Installation	*81083* *D412-742-	013*	Start Date: 08/03/2012 Start Qty: 1.00	Required Date: 22/03/2012 Required Qty: 1.00
AN4C6A	Purchased	No	110 Each	358.0000 16 16 ** \(\sum_{0}^{16} \)	
Л		Location FG 103344 ST356 116704 119749 120423	Loc Oty 4 4 354 7 47 200 100	Loc Code	- · ·
*AN4C53A *AN4C53A*	Purchased FCS2A ODF 9WD	No	110 Each	6.0000 4 4 **	1834
, Pro		<u>Location</u> ST361 120754	<u>Loc Oty</u> 6 6	Loc Code	
*AN4C52A *AN4C52A* BOLT	Purchased	No	110 Each	168.0000 4 4 ** /2/4/2	54 6
		Location ST361 117688 119641 120364 120465	Loc Oty 168 6 12 100 50	Loc Code	- - - -

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Parent Item Name: Float Skidtube	Installation	1 /	/ 	ч,,,			Start Date: Start Qty:	: 08/03/2012 : 1.00	Required Date: 22/03/2012 Required Qty: 1.00
AN6C12A	Purchased	No		110	Each	48.0000	8	8	\bigcirc
AN6C12A							**	m121303	→ [V
			Location	<u>L</u>	oc Oty	Loc Code			
			ST341		48				
			119862 120423		-2 50				
D3672-3	Manufactured	No		110	Each	706.0000	32	32	
D3672-3							**	B832	3 8 Ø
			Location	Lo	c Otv	Loc Code			
			ST060		706				
			64176 76278		180				
	1 7		80370		26 500				
AN960C4161.	Purchased	No		110	Each	0.0000	32	32	Λ //
*AN960C4161 *	900 432 A Manufactured						**	M11729C	
D3672-9	Manufactured	No		011	Each	64.0000	8	8	\cap
D3672-9 Phenolic Washer							**	B& 763	P É
			Location	Loc	<u>Qty</u>	Loc Code			
•			ST060		64				
NAS1149C0632R	Purchased	No	35523	110	64 Each	75.0000	8		
*NAS1149C0632		7.0		110	Lacii	73.0000	**	12/4/24	M 1210600
			Location	<u>Loc</u>	Oty	Loc Code		/	
			ST297		75				`
			119736		25				
			120308		50				

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Location Loc Oty Loc Code FP 54 77496 14 80377 40 ST055 1 57350 1 Manufactured No 110 Each 58.0000 8 8 *D3403-3* ** 389/53-	Parent Item: D412-742-013 *D412-742-013* Parent Item Name: Ploat Skidtube installation	Picklist Print • March-08-12 8:43:13 AM					Page 6
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## D3672-11* **Phenolic Washer* ***	## D3672-11* **D3672-11* **Phenolic Washer* Location Loc Or Loc Code						
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Nanufactured No 110 Each 58.0000 8 8 8 *D3403-3 ** ********************************	80377 40 80377 40 ST055 1 57350 1 Manufactured No 110 Each 58.0000 8 8 8 ** B8/\$30 1241245	111			54		
ST055 1 57350 1	ST055 1	NITO	·				<i>f</i> (
#D3403-3 Manufactured No 110 Each 58.0000 8 8 *** 788/\$30 Location ST042 \$80209 80220 52	57350 1 403-3 Manufactured No 110 Each 58.0000 8 8 ** \$\frac{1}{2}\left\right\rig	(3)			40		/
D3403-3 Bushing Location ST042 S8 80209 80220 52 Loc Code S0209 80220 52	D3403-3* String				1		
D3403-3 Bushing Location ST042 80209 6 80220 52 Loc Code 53 64 80200 52 Loc Code 55 65 80200 50 Loc Code	N3403-3*	D3403-3	Manufactured No		110 Each	58.0000 8 8	
ST042 58 80209 6 80220 52	ST042 58 80209 6 80220 52	*D3403-3* Bushing				~ "	30 12/4/24SC
80209 6 80220 52	80209 6 80220 52			Location	Loc Oty	Loc Code	
80220 52	80220 52						·
							
				00220	52		

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W/O:			WC	ORK ORDER CHANGE	S	······································			1.717
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
						·			
Part No		PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A:	Date: _	<u>.</u>
	R	esolution:	Disposition	1:	QA: N/C CI	osed:		Date: _	
NCR:			WORK ORDI	ER NON-CONFORMAN	ICE (NCR)			
DATE	STEP	Description of NC		Corrective Action Section		Verific	ation	Approvai	Approval
		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Secti	on C	Chief Eng	QC Inspector

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Work Order ID: 81083 Parent Item: D412-742-013 Parent Item Name: Float Skidtube	: Installation		1083*)412-742-()13*				08/03/2012	Required Date	
D3405-041 *D3405-041* Lug Assembly	Manufactured	No		110	Each	4.0000	Start Qty:	1 B 820	Required Qty	: 1.00
D3405-043 *D3405-043* Lug Assembly	Manufactured	No	<u>Location</u> ST478 62227 77000	<u>Lo</u> 110	c Oty 4 2 2 Each	<u>Loc Code</u> 2.0000	**	B820	374	
AN4C7A *AN4C7A*	Purchased	No	Location ST423 65703	<u>Lor</u> 110	2 2 Each	<u>Loc Code</u> 219.0000				
Bolt 93407-041 *□3407-041 *	Manufactured	No	<u>Location</u> ST356	<u>Loc</u>	Oty 219 219 Each	Loc Code	! **	4 1 B82/08		lula u sel
Fow Ring			<u>Location</u> ST463 76991	<u>Loc</u>	Oty .	Loc Code		(3.82/0.8.		(4) 4) 4) E

W/O:			WORK ORDER CHANGES												
DATE	STEP	PRO	CEDURE C	HANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector						
····															
-			· · · · ·												
Part No:		PAR #:	Fault Ca	tegory:	NCR: Yes No DQA: Date:										
Resolution:						QA: N/C Closed: Date:									
NCR:		V	VORK OR	DER NON-CONFORMA	NCE (NCF	R)									
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section Action Description Chief Eng	on B Sign & Date		cation ion C	Approval Chief Eng	Approval QC Inspector						
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Work Order ID: 81083 Parent Item: D412-742-013		*8108	13* 2-742-0	N13*						
Parent Item Name: Float Skidtul	be Installation	.,_,,,	- / - / - /	.,.,			tart Date: (Start Qty: 1		Required Date: 22/03/20 Required Oty: 1.00	12
5*D3417-3* Washer	Manufactured	No		110	Each	18.0000	2 **	2 B80	225 4	l C
		Locat	ion	Lo	2 Qty	Loc Code				
		FG			9					
•			33519		9					
		ST042			9					
D3456-1		N 1	66847		9					^
>*D3456-1*	Manufactured	No		110	Each	89.0000	**	1 B8/87	6 12/4/a4	£ 5
Washer		<u>Locati</u>	ion	Loc	Oty	Loc Code				′ (
		FG	_		7 -	200 0000				
			25701		7					
		ST034			16					
			77486		16					
		ST044			66					
			66848		3					
			71165		2					
			73493		11					
			80252		50					

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Work Order ID: 81083		*۶	31083*				· · · · · · - ·		
Parent Item: D412-742-013			7412-742	2 042*		•			
Parent Item Name: Float Skidtub	e Installation	•	141/-14/	/-() 1.5		St	art Data	08/03/2012	Required Date: 22/03/2012
							start Qty:		
AN3C37A	Purchased	No		110	r				Required Qty: 1.00
	rurchased	140		110	Each	178.0000	1	1	/)
AN3C37A							**		
			Location	Le	oc Qty	Loc Code			
			ST354		178				
			116874		11				-
			117010		2				
			118709		15				_
			119324		25				-
			120308 120422		25				-
			120731		50 50			-)	-
N3C40A	Purchased	No		110	Each	49.0000	1	-/	
'AN3C40A*					caen	49.0000	ا	'1)	
OLT AIV. AIVA							**	JD	<u> </u>
			Location	Loc	<u>Oty</u>	Loc Code			
			ST354		49				
			112454		5				
N3C41A	5 1 1		114442		44				
	Purchased	No		110	Each	144.0000	1	1	(()
AN3C41A*							**		12/4/24/
			Location	Loc	Oty	Loc Code			
			FG		4				•
			103324		4				
			ST354		140				
			119324		16				
			119530		44				
			119673		50				
			120/55		30				
				,					
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Work Order ID: 81083 Parent Item: D412-742-013			1083* 0412-742-(113*			·		
Parent Item Name: Float Skidtube	Installation	·	, , , , , , , , , , , , , , , , , , ,	, ,			Start Date: Start Qty:	08/03/2012 1.00	Required Date: 22/03/2012 Required Qty: 1.00
*AN3C42A *AN3C42A* BOLT	Purchased	No		110	Each	47.0000	**	1	
			<u>Location</u> ST354	<u>L</u>	oc Oty	Loc Code		\	
			106176 118131		47				
<u>AN</u> 3C43A	Purchased	No	119673	110	19 25 Each	169.0000	4	<u>J</u>	
S*AN3C43A*						107.0007	**	\$2	
			Location ST354 114455 119673 120364	<u>Lo</u>	2 169 1 1 66	Loc Code		<u> </u>	
AN3C46A BOLT	Purchased	No	120465	110	100 Each	85.0000	5 **	5 M121103	
			Location ST355 119673 120447	Loc	Qty 85 5 60	Loc Code			, ,
N960C10L NAS1149C0333	2 Purchased	No	120755	110	20 Each	0.0000	26	26	
*AN960C101 *				,			**	M12125	s whlaup

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Work Order ID: 81083

Parent Item:

D412-742-013

Parent Item Name: Float Skidtube Installation

81083

D412-742-013

Start Date: 08/03/2012

Required Date: 22/03/2012

Start Qty: 1.00

Required Qty: 1.00

MS21043-3

Purchased

No

110

Each

999.0000 13 **

MS21043-3

Location	Loc Qty	Loc Code	
FG	72		
103691	72		
GA	350		
120693	350		_
ST300	84		
119901	84		
ST301	493		
118077	2		
118614	441		
118686	30		
119758	20		